

SECRET**Office Memorandum • UNITED STATES GOVERNMENT****TO : Chief, Engineering Branch****DATE: 15 June 1951****FROM : Chief, Operations Branch****SUBJECT: Homing Beacon AN/CRN-12 ().**

1. Attached is Tech Manual TM 11-5046 concerning the AN/CRN-12 (). On checking with MSS we have determined that the Signal Corps is presently out of stock on the AN/CRN-12 () and has no immediate plans to replenish their stock. All formerly available units have since been issued.

2. Homing Beacon AN/CRN-12 () appears to be very close to the answer to our requirements for [redacted] Only slight modification would be necessary if information obtained from the attached TM is not misleading. It will be appreciated if the Engineering Branch will investigate the possibility of procurement of from 15 to 25 each from a sub-depot or unit supply. The field has not yet indicated a priority on their request for 10 such type radios.

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3. With the following modifications this office feels the AN/CRN-12 () will be useful for the immediate requirement [redacted] and very possibly have other useful applications as time goes on. The modifications suggested at this time are:

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A. Provision for a more efficient antenna such as a 1/2 or 3/4 wave "L" flat-top.

B. Provision for automatic operation on one frequency only. In it's present form the transmitter automatically cycles through four frequencies. A plug-in jumper which would parallel all four crystals sockets would be satisfactory.

C. Provision for operation from a battery providing longer shelf life than the wet storage battery normally used. Indefinite shelf life would be the most satisfactory goal to obtain here.

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